FIG.1

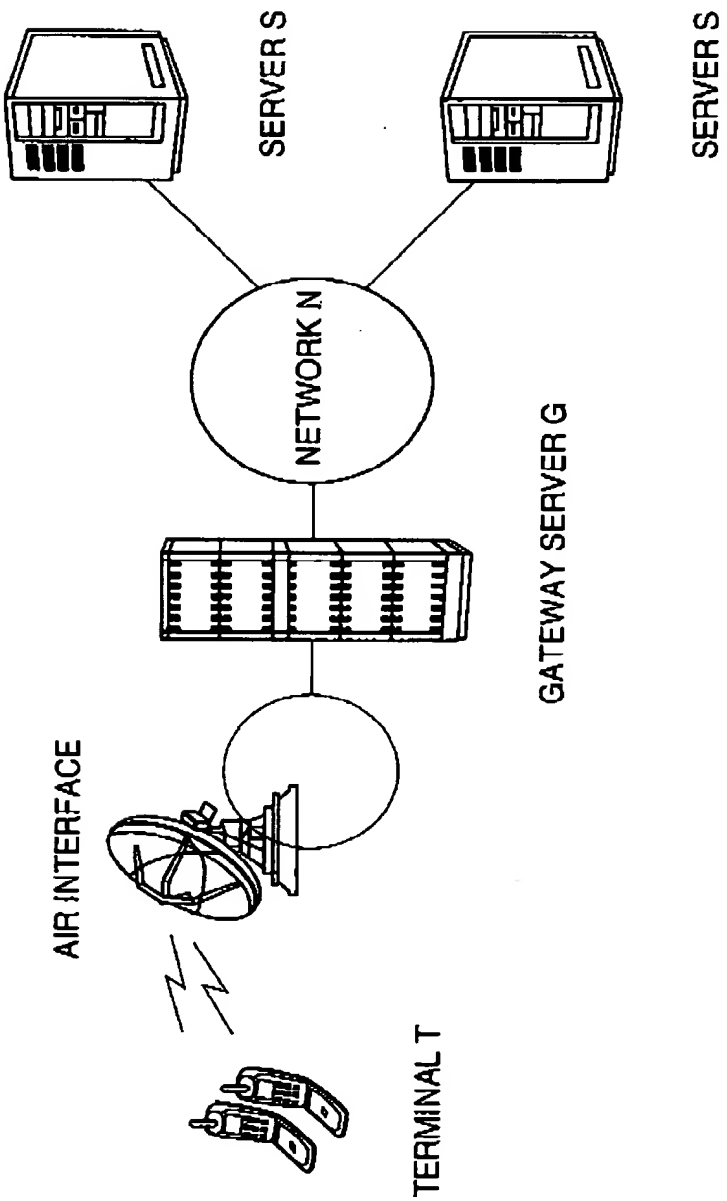

SERVER S
SERVER S
NETWORK N
GATEWAY SERVER G
AIR INTERFACE
TERMINAL T

FIG.2

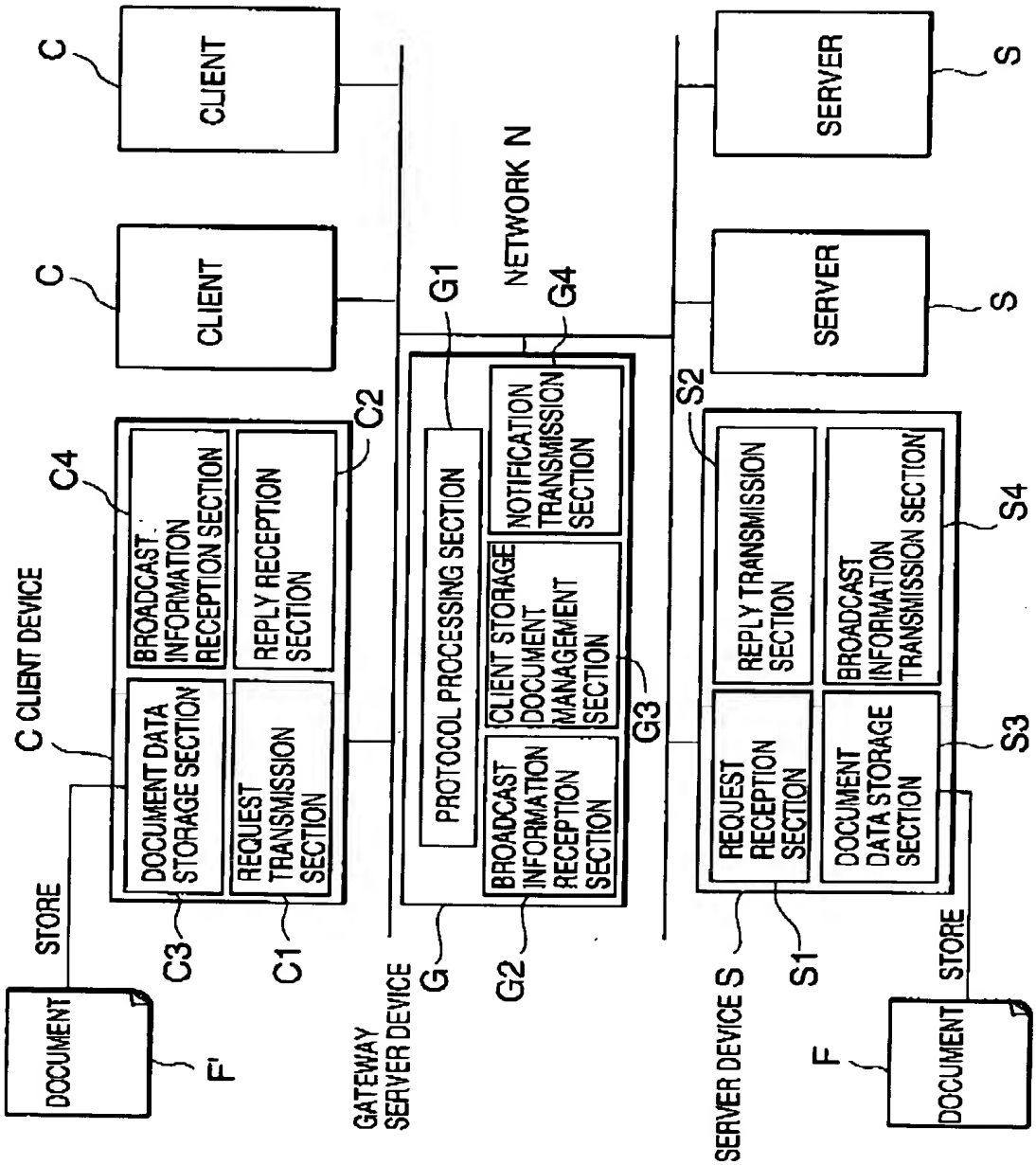

C
CLIENT
C
CLIENT
NETWORK N
G1
G4
S
SERVER
S
SERVER
C2
C4
C CLIENT DEVICE
BROADCAST INFORMATION RECEPTION SECTION
REPLY RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
REQUEST TRANSMISSION SECTION
PROTOCOL PROCESSING SECTION
CLIENT STORAGE DOCUMENT MANAGEMENT SECTION
NOTIFICATION TRANSMISSION SECTION
BROADCAST INFORMATION RECEPTION SECTION
G3
S2
REPLY TRANSMISSION SECTION
BROADCAST INFORMATION TRANSMISSION SECTION
S4
REQUEST RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
S3
STORE
DOCUMENT
F'
C3
C1
GATEWAY SERVER DEVICE
G
G2
SERVER DEVICE S
S1
F
STORE
DOCUMENT

FIG.3

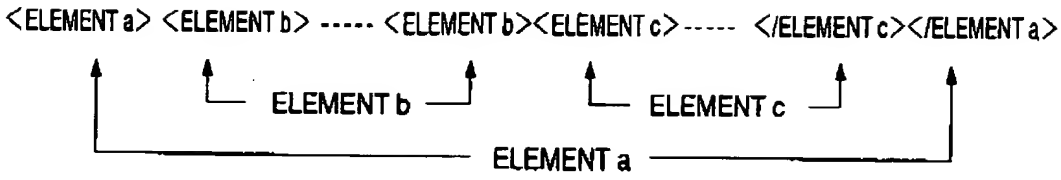


FIG.4

<ELEMENT NAME> ----- ELEMENT CONTENT ----- </ELEMENT NAME>

(START TAG) (END TAG)

FIG.5

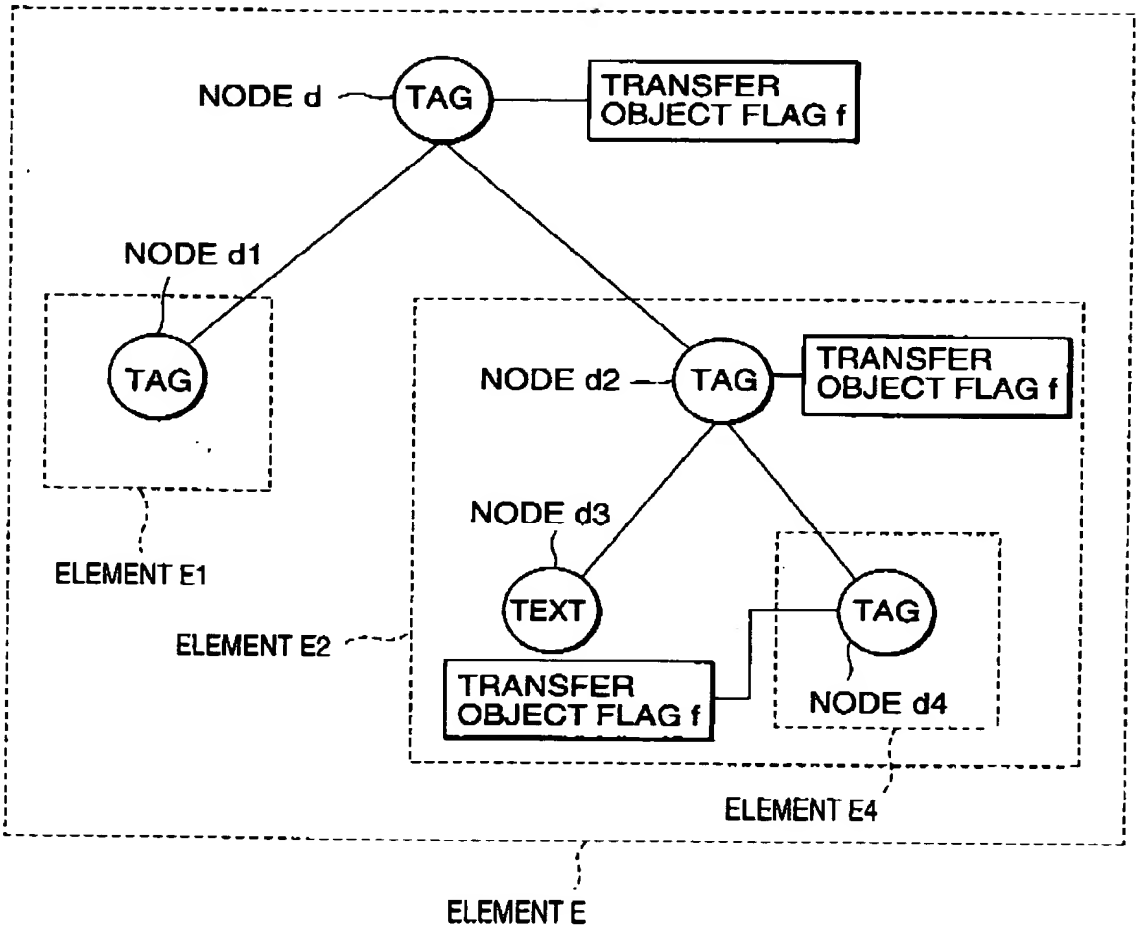

NODE d
TAG
TRANSFER OBJECT FLAG f
NODE d1
TAG
ELEMENT E1
NODE d2
TAG
TRANSFER OBJECT FLAG f
NODE d3
TEXT
TRANSFER OBJECT FLAG f
ELEMENT E2
TAG
NODE d4
ELEMENT E4
ELEMENT E

FIG.6

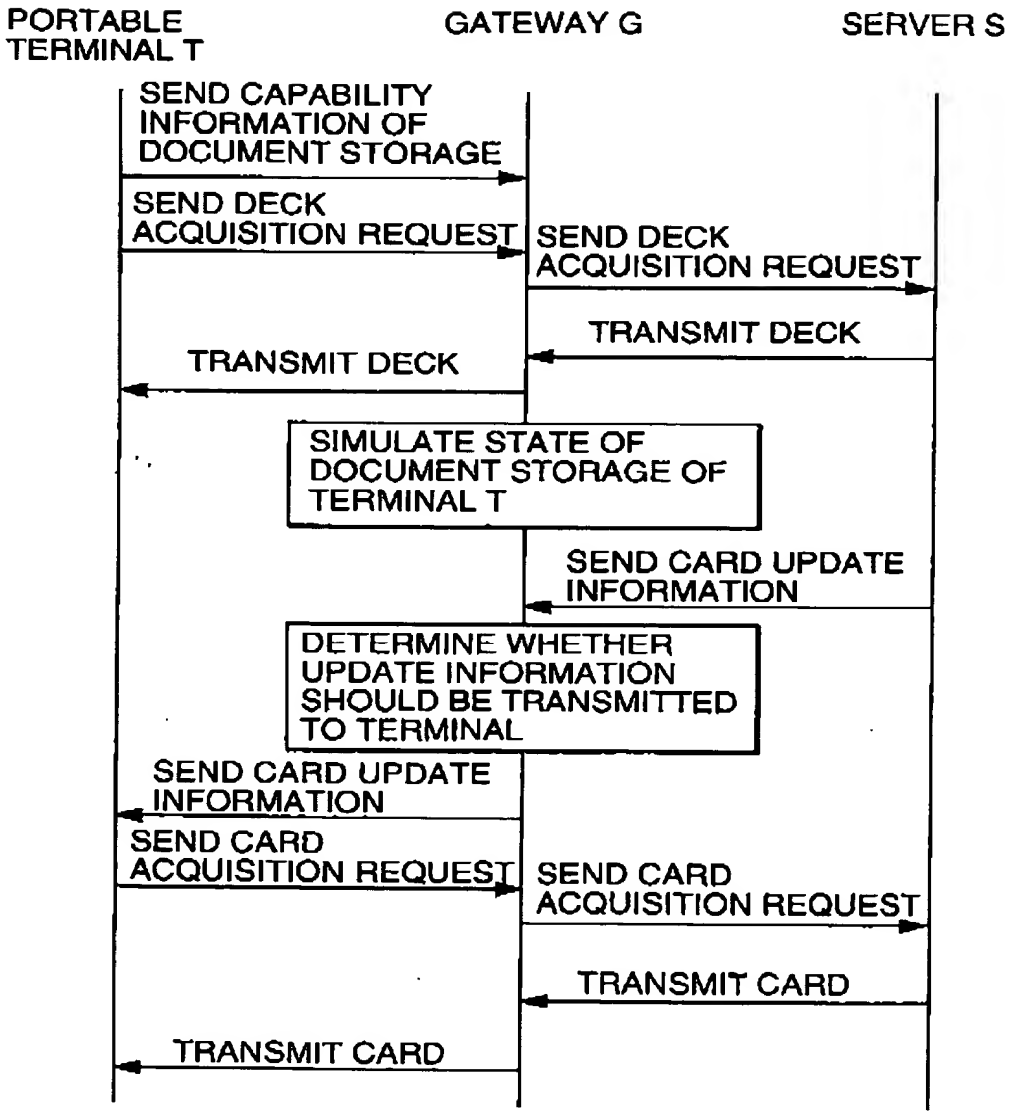

PORTABLE TERMINAL T
GATEWAY G
SERVER S
SEND CAPABILITY INFORMATION OF DOCUMENT STORAGE
SEND DECK ACQUISITION REQUEST
SEND DECK ACQUISITION REQUEST
TRANSMIT DECK
TRANSMIT DECK
SIMULATE STATE OF DOCUMENT STORAGE OF TERMINAL T
SEND CARD UPDATE INFORMATION
DETERMINE WHETHER UPDATE INFORMATION SHOULD BE TRANSMITTED TO TERMINAL
SEND CARD UPDATE INFORMATION
SEND CARD ACQUISITION REQUEST
SEND CARD ACQUISITION REQUEST
TRANSMIT CARD
TRANSMIT CARD

FIG.7

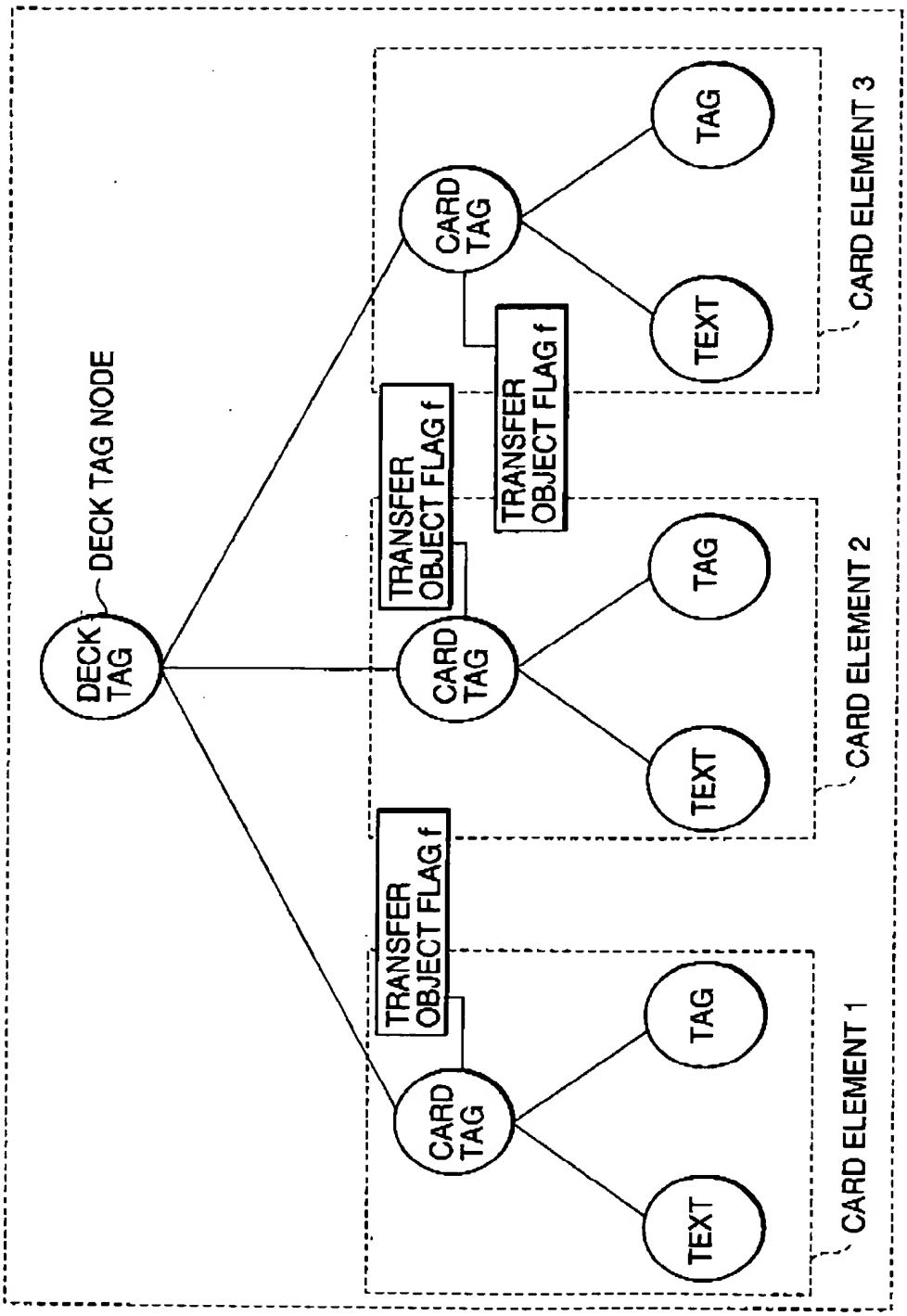

DECK TAG NODE
DECK TAG
CARD TAG
TRANSFER OBJECT FLAG f
TAG
TEXT
CARD ELEMENT 1
CARD ELEMENT 2
CARD ELEMENT 3

FIG.8

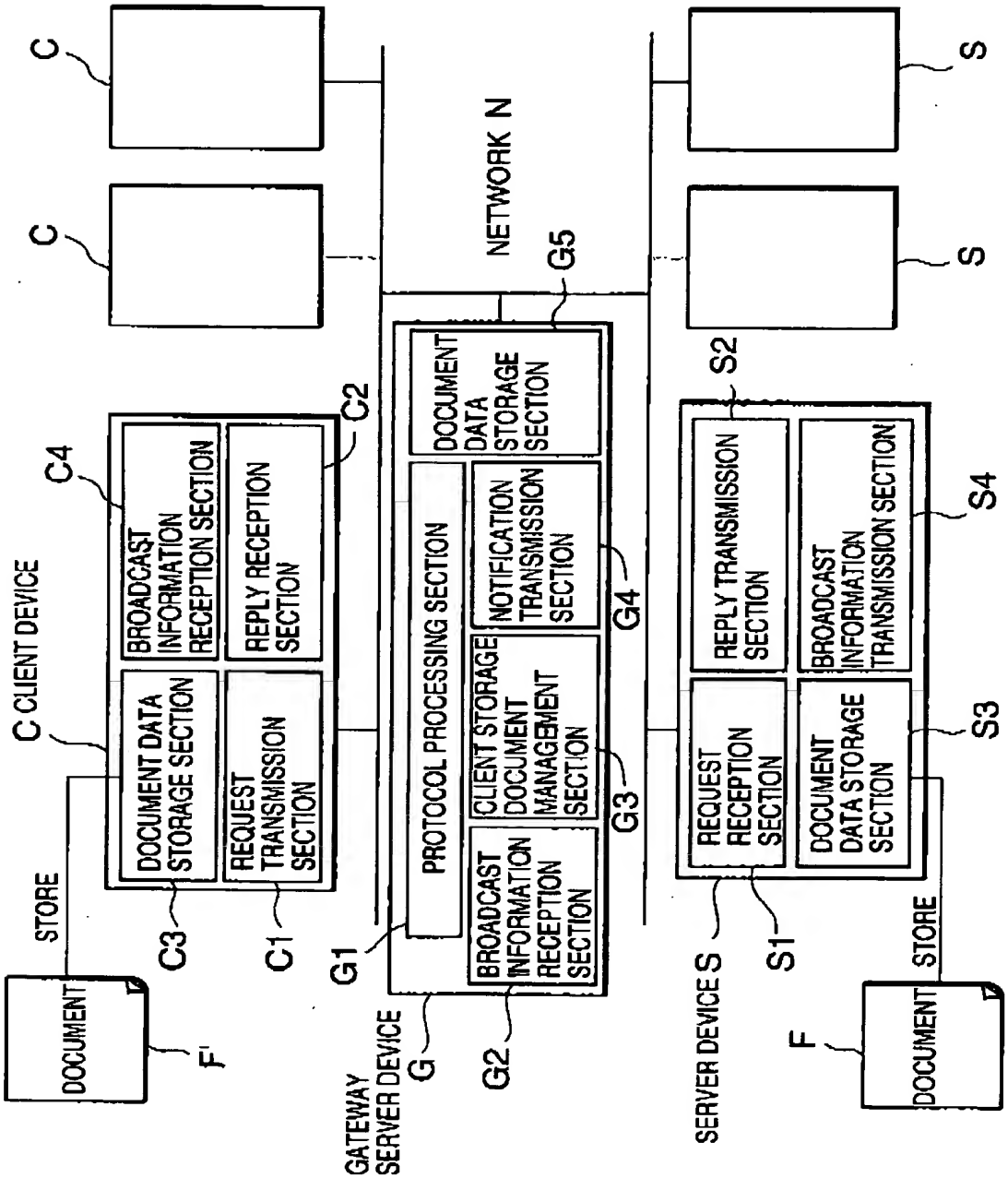

C
C
NETWORK N
S
S
C CLIENT DEVICE
C4
BROADCAST INFORMATION RECEPTION SECTION
REPLY RECEPTION SECTION
C2
DOCUMENT DATA STORAGE SECTION
REQUEST TRANSMISSION SECTION
STORE
DOCUMENT
F'
C3
C1
G1
PROTOCOL PROCESSING SECTION
CLIENT STORAGE DOCUMENT MANAGEMENT SECTION
BROADCAST INFORMATION RECEPTION SECTION
NOTIFICATION TRANSMISSION SECTION
DOCUMENT DATA STORAGE SECTION
G5
G4
G3
G2
G
GATEWAY SERVER DEVICE
S2
REPLY TRANSMISSION SECTION
BROADCAST INFORMATION TRANSMISSION SECTION
S4
REQUEST RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
S3
SERVER DEVICE S
S1
F
STORE
DOCUMENT

FIG.9

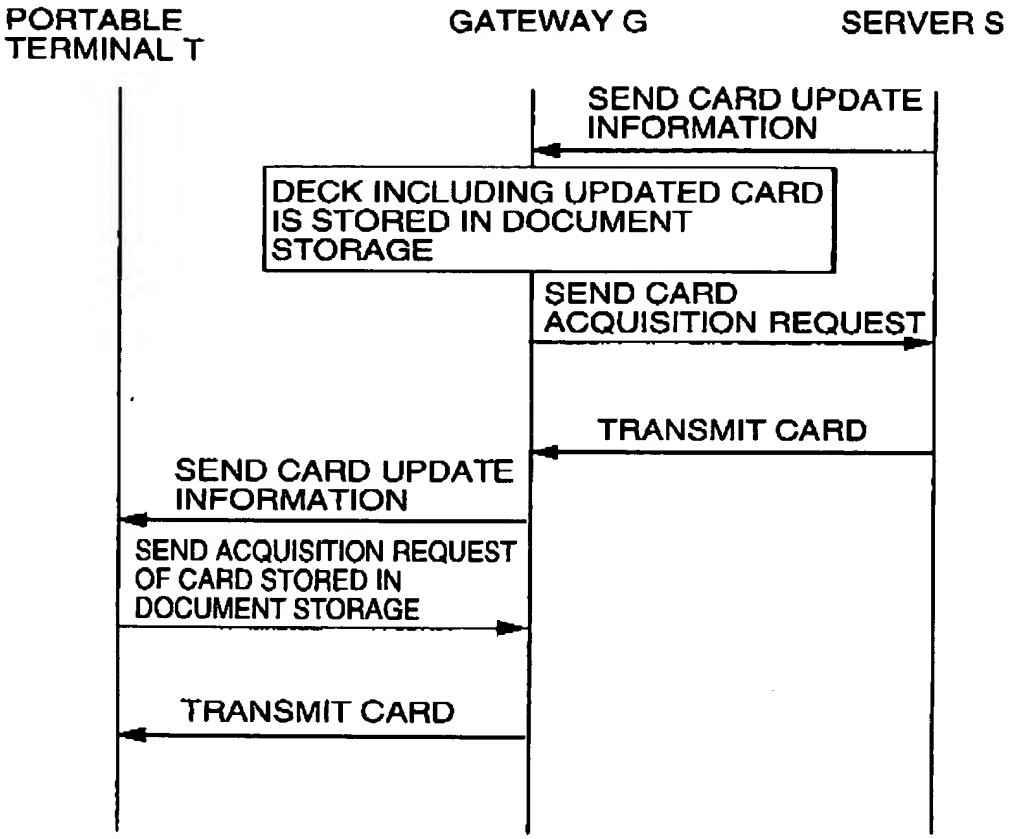

PORTABLE TERMINAL T
GATEWAY G
SERVER S
SEND CARD UPDATE INFORMATION
DECK INCLUDING UPDATED CARD IS STORED IN DOCUMENT STORAGE
SEND CARD ACQUISITION REQUEST
TRANSMIT CARD
SEND CARD UPDATE INFORMATION
SEND ACQUISITION REQUEST OF CARD STORED IN DOCUMENT STORAGE
TRANSMIT CARD

FIG.10

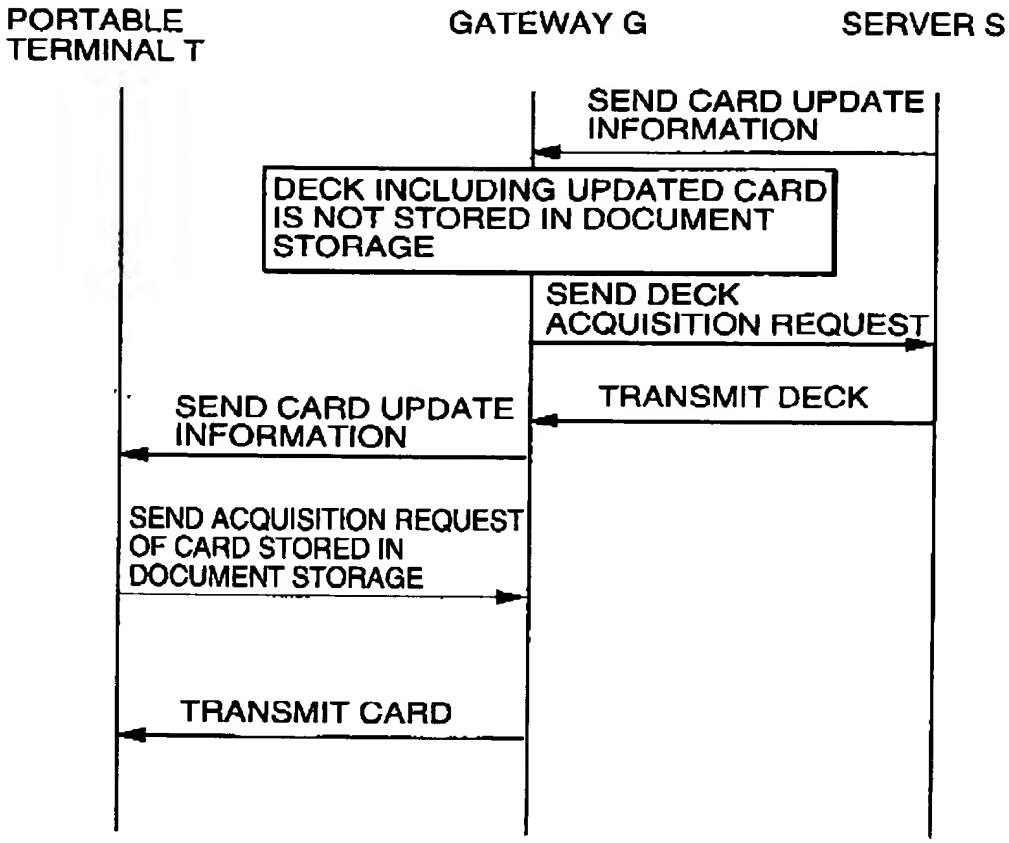

PORTABLE TERMINAL T
GATEWAY G
SERVER S
SEND CARD UPDATE INFORMATION
DECK INCLUDING UPDATED CARD IS NOT STORED IN DOCUMENT STORAGE
SEND DECK ACQUISITION REQUEST
TRANSMIT DECK
SEND CARD UPDATE INFORMATION
SEND ACQUISITION REQUEST OF CARD STORED IN DOCUMENT STORAGE
TRANSMIT CARD

FIG.11

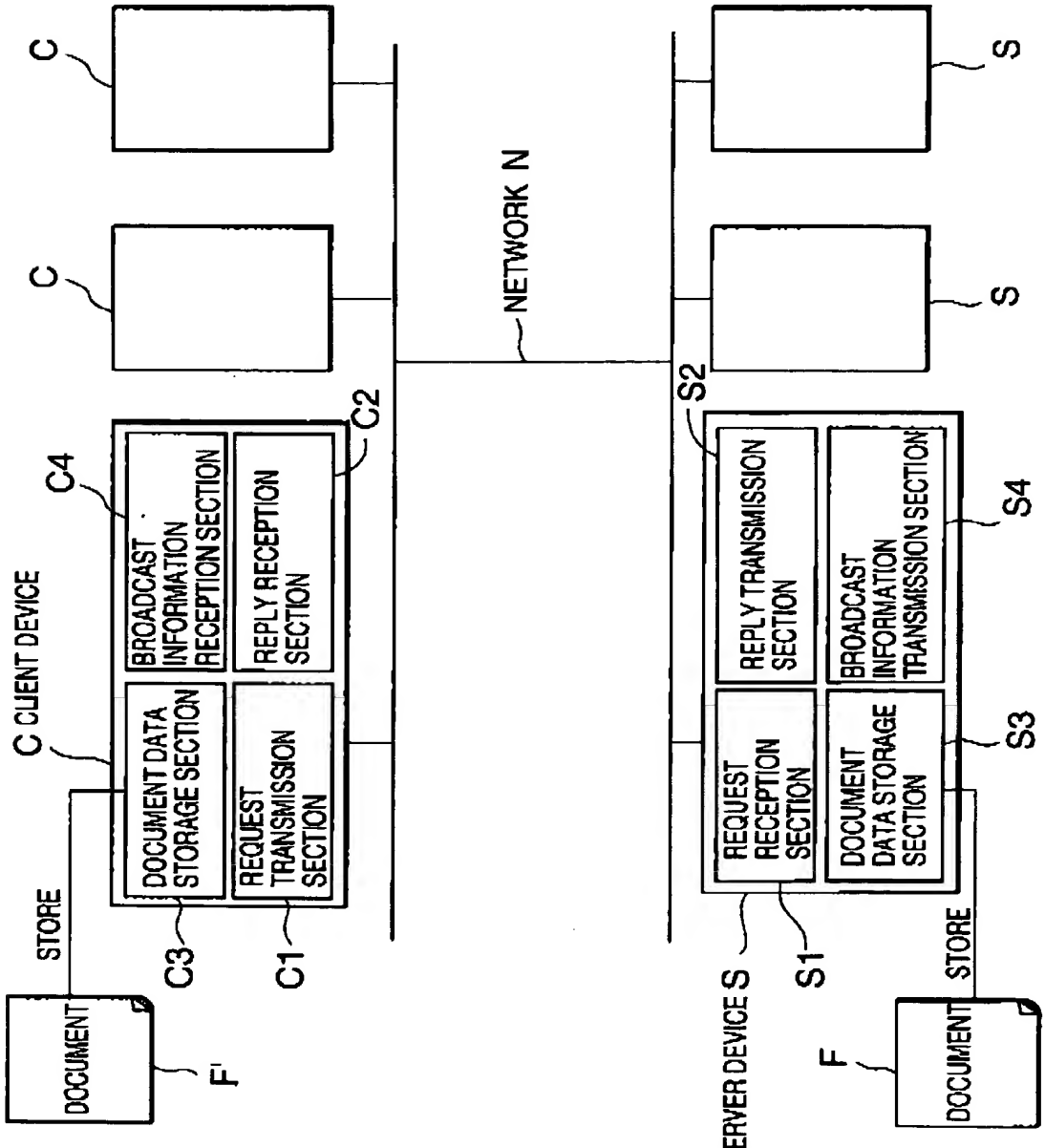

C
C
NETWORK N
S
S
C4
C2
S2
S4
S3
C CLIENT DEVICE
BROADCAST INFORMATION RECEPTION SECTION
REPLY RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
REQUEST TRANSMISSION SECTION
REPLY TRANSMISSION SECTION
BROADCAST INFORMATION TRANSMISSION SECTION
REQUEST RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
STORE
STORE
C3
C1
S1
SERVER DEVICE S
DOCUMENT
DOCUMENT
F'
F

FIG.12

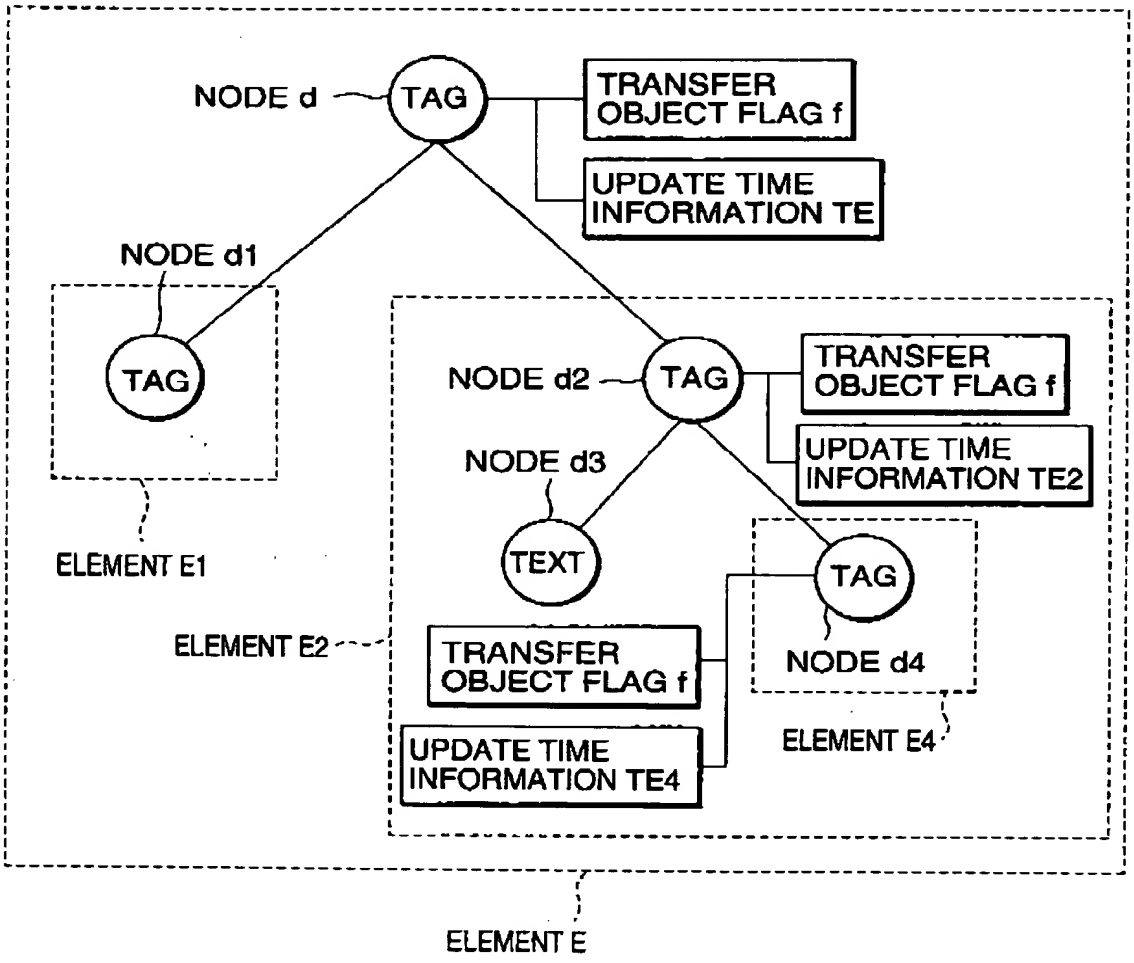
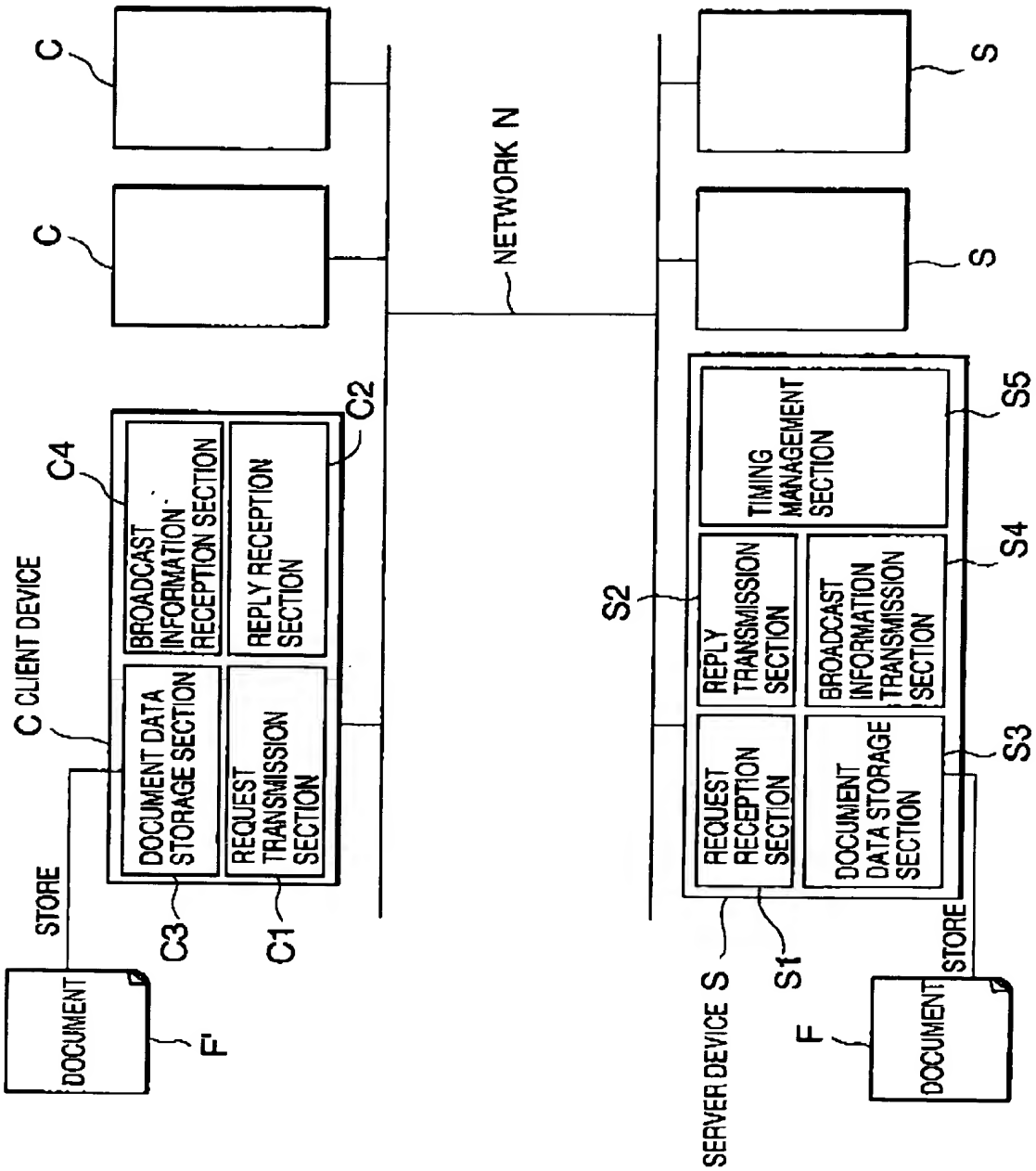

NODE d
TAG
TRANSFER OBJECT FLAG f
UPDATE TIME INFORMATION TE
NODE d1
TAG
ELEMENT E1
NODE d2
TAG
TRANSFER OBJECT FLAG f
UPDATE TIME INFORMATION TE2
NODE d3
TEXT
TAG
NODE d4
ELEMENT E4
ELEMENT E2
TRANSFER OBJECT FLAG f
UPDATE TIME INFORMATION TE4
ELEMENT E

FIG.13

TIME	UPDATED NODE	UPDATED TIME INFORMATION TE	UPDATED TIME INFORMATION TE2	UPDATED TIME INFORMATION TE4
t0	E,E1,E2,E3,E4	t0	t0	t0
t1	E2	t0	t1	t0
t2	E4	t0	t1	t2
t3	E1	t3	t1	t2

FIG.14


C
C
NETWORK N
S
S
C CLIENT DEVICE
C4
C2
BROADCAST INFORMATION RECEPTION SECTION
REPLY RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
REQUEST TRANSMISSION SECTION
STORE
C3
C1
DOCUMENT
F
S2
TIMING MANAGEMENT SECTION
S5
REPLY TRANSMISSION SECTION
BROADCAST INFORMATION TRANSMISSION SECTION
S4
REQUEST RECEPTION SECTION
DOCUMENT DATA STORAGE SECTION
S3
SERVER DEVICE S
S1
F
STORE
DOCUMENT